

PATENT  
Attorney Docket No. BSC-009DV

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANTS: Crowley  
SERIAL NO.: Not yet assigned. GROUP NO.: Not yet assigned.  
FILING DATE: Herewith. EXAMINER: Not yet assigned.  
TITLE: Mucosal Ablation

Box PATENT APPLICATION  
Assistant Commissioner for Patents  
Washington, D.C. 20231

**PRELIMINARY AMENDMENT**

Kindly enter the following preliminary amendment after assigning a filing date but before beginning examination of the patent application identified above and submitted herewith.

**In the Written Description:**

On page 1, please replace the paragraph starting on line 3 and ending on line 4 with the following paragraph:

This is a divisional of prior application Serial No. 08/903, 218, filed on July 22, 1997, which is based on U.S. provisional patent application serial no. 60/033,333, filed on November 21, 1996. The entire disclosure of both applications is incorporated herein by reference.

**In the Drawings:**

Please substitute 3 sheets of informal drawings (Figures 1-4) with 2 sheets of *formal* drawings (same Figures 1-4).

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**In the Claims:**

Please cancel claims 1-13 without prejudice, add claims 29-33, and amend claim 14 to read as follows:

14. (Amended) A method for illuminating tissue, comprising:
  - a) providing a light device comprising a flash lamp;
  - b) inserting the light device inside a body near tissue to be illuminated;
  - c) energizing the light device to generate high intensity ultraviolet light; and
  - d) illuminating the tissue by applying the generated light to the tissue.

29. (New) The method of claim 25 wherein the interventional device comprises an expandable balloon enclosing the light device.

30. (New) The method of claim 29, further comprising transporting a fluid to the balloon to dissipate heat generated by the light device.

31. (New) The method of claim 14, further comprising disposing a lens comprising a lenticular pattern in a pathway of the light generated by the flash lamp.

32. (New) The method of claim 31 wherein the lenticular pattern comprises a fresnel pattern.

33. (New) The method of claim 14, further comprising stepping up the voltage of a power supplied to the flash lamp.

**REMARKS**

Applicant hereby amends the specification to provide information about related applications and to assert right of priority under 35 U.S.C. §§ 120 and 119(e). A marked-up copy of the amended paragraph is attached. Formal drawings are also attached and submitted to substitute the informal drawings originally filed in the parent case. No new matter is added.

Claims 1-13 are canceled without prejudice. Claim 14 is amended. New claims 29-39 are added. The pending claims are directed to a subject matter restricted out in a prior application. A marked-up copy of the amended claim, and a clean copy of all pending claims are

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attached. All pending claims, i.e., claims 14-33, are supported by the Specification and the claims as originally filed. Applicant respectfully submits that no new matter is added.

### CONCLUSION

If the Examiner believes that a telephone conversation with Applicant's attorney would expedite allowance of this application, the Examiner is cordially invited to call the undersigned attorney at (617) 248-7808.

Respectfully submitted,



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**Marked-up Version with Changes Made to Specification**

This is a divisional of prior application Serial No. 08/903, 218, filed on July 22, 1997,  
which is based on U.S. provisional patent application serial no. 60/033,333, filed on November  
21, 1996. The entire disclosure of both applications is incorporated herein by reference.

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**Marked-up Version of Claim Amendment**

14. (Amended) A method for illuminating tissue, comprising:
  - a) providing a light device comprising a flash lamp;
  - b) inserting the light device inside a body near tissue to be illuminated;
  - c) energizing the ~~light device~~flash lamp to generate high intensity ultraviolet light; and
  - d) illuminating the tissue by applying the generated light to the tissue.

**Clean Version of All Pending Claims**

14. (Amended) A method for illuminating tissue, comprising:

- a) providing a light device comprising a flash lamp;
- b) inserting the light device inside a body near tissue to be illuminated;
- c) energizing the light device to generate high intensity ultraviolet light; and
- d) illuminating the tissue by applying the generated light to the tissue.

15. The method of claim 14 wherein illuminating the tissue comprises ablating a mucosal lining of an esophagus.

16. The method of claim 14 wherein illuminating the tissue comprises ablating a mucosal lining of a throat.

17. The method of claim 14 wherein illuminating the tissue comprises ablating a mucosal lining of an intestine.

18. The method of claim 14 wherein illuminating the tissue comprises ablating a mucosal lining of a colon.

19. The method of claim 14 wherein illuminating the tissue comprises ablating an endothelial lining of a uterus.

20. The method of claim 14 wherein illuminating the tissue comprises ablating an endothelial lining of a urethra.

21. The method of claim 14 wherein illuminating the tissue comprises ablating an endothelial lining of a bladder.

22. The method of claim 14 wherein illuminating the tissue comprises ablating an endothelial lining of an organ.

23. The method of claim 14 wherein illuminating the tissue comprises ablating an endothelial lining of a duct.

24. The method of claim 14 wherein illuminating the tissue comprises ablating an endothelial lining of a vessel.

25. The method of claim 14 further comprising disposing the light device at a distal end of an interventional device and inserting the interventional device inside a body near tissue to be illuminated.

26. The method of claim 25 further comprising transporting a fluid to the light device to dissipate heat generated by the light device.

27. The method of claim 14 further comprising characterizing the tissue by transporting a dye to the tissue to stain the tissue and wherein illuminating the tissue comprises ablating the tissue using light absorbed by the stained tissue.

28. The method of claim 14 further comprising introducing a drug near the tissue and activating the drug through illumination.

29. (New) The method of claim 25 wherein the interventional device comprises an expandable balloon enclosing the light device.

30. (New) The method of claim 29, further comprising transporting a fluid to the balloon to dissipate heat generated by the light device.

31. (New) The method of claim 14, further comprising disposing a lens comprising a lenticular pattern in a pathway of the light generated by the flash lamp.

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32. (New) The method of claim 31 wherein the lenticular pattern comprises a fresnel pattern.

33. (New) The method of claim 14, further comprising stepping up the voltage of a power supplied to the flash lamp.